

# **POWER AND MONEY:**

## **Relating Sample Size and Power Estimates to Staffing Workplans, Timelines and Budgets**

### **Presented by:**

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### **Presented at:**

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### **Session Overview:**

The statistician and grants administrator usually interact around the budget development which is driven largely by staff costs and sample size. This completely interactive, participatory session will draw examples from projects under development. Beginning with the Effect Size, a Sample Size and Statistical Power Analysis will be prepared, and based on these assumptions, a workplan, timeline and budget will be developed. Often, this is an iterative process, requiring revisions to the statistical assumptions (size of the difference that can be detected, the statistical power and number of study participants ), methodological assumptions (numbers of visits, duration of follow-up) and management plans (staffing, timeline, budget). Participants are encouraged to bring their notebook computers with a spreadsheet such as Excel (or a calculator and a pencil with a very big eraser), and we will work through several examples of studies that are too expensive, too long and underpowered.

### **Recommended Readings – Consult the NIH PHS398 Form**

[http://grants1.nih.gov/grants/funding/phs398/section\\_1.html#4 detailed](http://grants1.nih.gov/grants/funding/phs398/section_1.html#4)

### **Forms: Initial Budget period – Direct Costs only:**

<http://grants1.nih.gov/grants/funding/phs398/fp4.rtf>

### **Entire Budget period – Direct Costs only:**

<http://grants1.nih.gov/grants/funding/phs398/fp5.rtf>

### **Salary maximum information available at:**

<http://grants2.nih.gov/grants/guide/notice-files/NOT-OD-03-034.html>